

INDEX OF AUTHORS

VOLUME 77 (EP), 1990

(The numbers followed by P refer to abstracts from Society Proceedings)

- Abbruzzese, G., Dall'Agata, D., Morena, M., Reni, L. and Favale, E., Abnormalities of parietal and prerolandic somatosensory evoked potentials in Huntington's disease, 340
- Abe, Y. and Kuroiwa, Y., Amplitude asymmetry of hemifield pattern reversal VEPs in healthy subjects, 81
- Adelman, C., Levi, H., Linder, N. and Sohmer, H., Neonatal auditory brain-stem response threshold and latency: 1 hour to 5 months, 77
- Alho, K., see Nyman, G., 436
- Alho, K., Sainio, K., Sajaniemi, N., Reinikainen, K. and Nääätänen, R., Event-related brain potential of human newborns to pitch change of an acoustic stimulus, 151
- Altenmüller, E., Cornelius, C.P. and Buettner, U.W., Somatosensory evoked potentials following tongue stimulation in normal subjects and patients with lesions of the afferent trigeminal system, 403
- Amassian, V.E., Quirk, G.J. and Stewart, M., A comparison of corticospinal activation by magnetic coil and electrical stimulation of monkey motor cortex, 390
- Amin, D., see Philpot, M.P., 323
- Ando, A., see Yasuhara, A., 93
- Andoh, K., see Yasuhara, A., 93
- Attias, J. and Pratt, H., Three-channel Lissajous' trajectories of auditory event-related potentials to target stimuli, 127
- Baele, P., see Guérit, J.M., 163
- Bartel, P., Blom, M., Robinson, E., Van der Meyden, C., Sommers, D.K. and Becker, P., Effects of chlorpromazine on pattern and flash ERGs and VEPs compared to oxazepam and to placebo in normal subjects, 330
- Basciani, M., see Onofrij, M., 314
- Baumann, S.B., see Rogers, R.L., 237
- Bazzano, S., see Onofrij, M., 314
- Becker, P., see Bartel, P., 330
- Berardelli, A., see Inghilleri, M., 382
- Berman, R.F., see Lee, J.A., 362
- Blom, M., see Bartel, P., 330
- Bloom, F.E., see Polich, J., 179
- Boyes, W.K., see Hudnell, H.K., 190
- Brailowsky, S., see Knight, R.T., 225
- Brophy, J., see Jabbari, B., 277
- Brown, J.W., see Markand, O.N., 416
- Brown, W.S., see Galbraith, G.C., 295
- Brunko, E., see Delberghe, X., 86
- Brunquell, P.J., Taylor, G.W., Holmes, G.L. and Feldman, D.S., Ontogenesis of lumbar spinal somatosensory evoked potentials after posterior tibial nerve stimulation in the rat, 112
- Buettner, U.W., see Altenmüller, E., 403
- Burke, D., see Gandevia, S.C., 353
- Burke, D., see Skuse, N.F., 199
- Cacace, A.T., Satya-Murti, S. and Wolpaw, J.R., Human middle-latency auditory evoked potentials: vertex and temporal components, 6
- Cadaveira, F., see Díaz, F., 145
- Caramia, M.D., see Rossini, P.M., 266
- Carteri, A., see Zanette, G., 140
- Chalklin, V., see Desmedt, J.E., 243
- Chan, Y.W., Woo, E. and Yu, Y.L., Chronic effects of phenytoin on brain-stem auditory evoked potentials in man, 119
- Chu, A., see Jabbari, B., 277
- Cornelius, C.P., see Altenmüller, E., 403
- Côte, R., see Thivierge, J., 309
- Cruccu, G., see Inghilleri, M., 382
- Curatola, L., see Onofrij, M., 314
- Curio, G. and Weigel, K., Intra-ponto-mesencephalic recording of binaural interaction in human brain-stem auditory evoked potentials, 19
- Cusumano, S., see Zanette, G., 140
- Dall'Agata, D., see Abbruzzese, G., 340
- Delberghe, X., Mavrouidakis, N., Zegers de Beyl, D. and Brunko, E., The effect of stimulus frequency on post- and pre-central short-latency somatosensory evoked potentials, 86
- De Munck, J.C., The estimation of time varying dipoles on the basis of evoked potentials, 156
- Desmedt, J.E., Chalklin, V. and Tomberg, C., Emulation of somatosensory evoked potential (SEP) components with the 3-shell head model and the problem of 'ghost potential fields' when using an average reference in brain mapping, 243

- Desmedt, J.E., see Tomberg, C., 259
- Díaz, F., Cadaveira, F. and Grau, C., Short- and middle-latency auditory evoked potentials in abstinent chronic alcoholics: preliminary findings, 145
- Dion, R., see Guérit, J.M., 163
- Dobie, R.A. and Wilson, M.J., Optimal ('Wiener') digital filtering of auditory evoked potentials: use of coherence estimates, 205
- Donaldson, G.S. and Rubel, E.W., Effects of stimulus repetition rate on ABR threshold, amplitude and latency in neonatal and adult Mongolian gerbils, 458
- Dull, S.T., Konrad, P.E. and Tacker, Jr., W.A., Amplitude and latency characteristics of spinal cord motor evoked potentials in the rat, 68
- Eisenberg, H.M., see Rogers, R.L., 237
- Elbrecht, C., see Jabbari, B., 101
- Emori, T., see Yasuhara, A., 93
- Ertekin, Ç., see Hansen, M.V., 52
- Favale, E., see Abbruzzese, G., 340
- Feldman, D.S., see Brunquell, P.J., 112
- Fukuda, H., see Ito, J., 174
- Fulgente, T., see Onofrj, M., 314
- Galbraith, G.C. and Brown, W.S., Cross-correlation and latency compensation analysis of click-evoked and frequency-following brain-stem responses in man, 295
- Gandevia, S.C. and Burke, D., Projection of thenar muscle afferents to frontal and parietal cortex of human subjects, 353
- Genba, K., see Sonoo, M., 28
- Geyer, C., see Jabbari, B., 101, 277
- Grafe, M.R., see Zornow, M.H., 137
- Grau, C., see Díaz, F., 145
- Grim, M.A., see Schwartz, D.M., 445
- Guérit, J.M., Soveges, L., Baele, P. and Dion, R., Median nerve somatosensory evoked potentials in profound hypothermia for ascending aorta repair, 163
- Gunderson, C.H., see Jabbari, B., 101, 277
- Hansen, M.V., Ertekin, Ç. and Larsson, L.-E., Cerebral evoked potentials after stimulation of the posterior urethra in man, 52
- Holmes, G.L., see Brunquell, P.J., 112
- Hudnell, H.K., Boyes, W.K. and Otto, D.A., Stationary pattern adaptation and the early components in human visual evoked potentials, 190
- Ikeda, A., see Shibasaki, H., 286
- Inghilleri, M., Berardelli, A., Cruccu, G., Priori, A. and Manfredi, M., Motor potentials evoked by paired cortical stimuli, 382
- Iragui, V., see Staley, K., 1
- Ito, J., Yamao, S., Fukuda, H., Mimori, Y. and Nakamura, S., The P300 event-related potentials in dementia of the Alzheimer type. Correlations between P300 and monoamine metabolites, 174
- Jabbari, B., Geyer, C., Gunderson, C., Chu, A., Brophy, J., McBurney, J.W. and Jonas, B., Somatosensory evoked potentials and magnetic resonance imaging in syringomyelia, 277
- Jabbari, B., Geyer, C., Schlatter, M., Scherokman, B., Mitchell, M., McBurney, J.W., Elbrecht, C. and Gunderson, C.H., Somatosensory evoked potentials and magnetic resonance imaging in intraspinal neoplasms, 101
- Jonas, B., see Jabbari, B., 277
- Jones, S.J. and Van der Poel, J.C., Binaural interaction in the brain-stem auditory evoked potential: evidence for a delay line coincidence detection mechanism, 214
- Kadoya, C., see Urasaki, E., 39, 233
- Kakigi, R., see Shibasaki, H., 286
- Kelly, A.R., see Lee, J.A., 362
- Kimura, J., see Yasuhara, A., 93
- King, R.D., see Markand, O.N., 416
- Knight, R.T. and Brailowsky, S., Auditory evoked potentials from the primary auditory cortex of the cat: topographic and pharmacological studies, 225
- Konrad, P.E., see Dull, S.T., 68
- Kovala, T., Tolonen, U. and Pyhtinen, J., Correlation of tibial nerve SEPs with the development of seizures in patients with supratentorial cerebral infarcts, 347
- Kunimoto, M., see Sonoo, M., 28
- Kuroiwa, Y., see Abe, Y., 81
- Ladish, C., see Polich, J., 179
- Larsson, L.-E., see Hansen, M.V., 52
- Laurinen, P., see Nyman, G., 436
- Lee, J.A., Schoener, E.P., Nielsen, D.W., Kelly, A.R., Lin, W.-N. and Berman, R.F., Alcohol and the auditory brain-stem response, brain temperature, and blood alcohol curves: explanation of a paradox, 362
- Levi, H., see Adelman, C., 77
- Levy, R., see Philpot, M.P., 323
- Lin, W.-N., see Lee, J.A., 362
- Linder, N., see Adelman, C., 77
- Mahomed, Y., see Markand, O.N., 416
- Malatesta, G., see Onofrj, M., 314
- Mallik, G.S., see Markand, O.N., 416, 425
- Manfredi, M., see Inghilleri, M., 382
- Mannen, T., see Sonoo, M., 28
- Marioenzi, R., see Rossini, P.M., 266
- Markand, O.N., Warren, C., Mallik, G.S., King, R.D., Brown, J.W. and Mahomed, Y., Effects of hypothermia on short latency somatosensory evoked potentials in humans, 416
- Markand, O.N., Warren, C., Mallik, G.S. and Williams, C.J., Temperature-dependent hysteresis in somatosensory and auditory evoked potentials, 425
- Martino, G., see Rossini, P.M., 266
- Matsuoka, S., see Urasaki, E., 39, 233
- Mavrouidakis, N., see Delberghe, X., 86
- McBurney, J.W., see Jabbari, B., 101, 277
- Mimori, Y., see Ito, J., 174
- Mitchell, M., see Jabbari, B., 101

- Morena, M., see Abbruzzese, G., 340
 Morris, M.D., see Schwartz, D.M., 445
- Näätänen, R., see Alho, K., 151
 Näätänen, R., see Nyman, G., 436
 Nakamura, M., see Shibasaki, H., 286
 Nakamura, S., see Ito, J., 174
 Nielsen, D.W., see Lee, J.A., 362
 Nishida, S., see Shibasaki, H., 286
 Nishimura, Y. and Tonoue, T., Auditory brain-stem responses in the rat brain isolated from the body trunk and maintained via cross-circulation, 320
 Noël, P., see Tomberg, C., 259
 Nyman, G., Alho, K., Laurinen, P., Paavilainen, P., Radil, T., Reinikainen, K., Sams, M. and Näätänen, R., Mismatch negativity (MMN) for sequences of auditory and visual stimuli: evidence for a mechanism specific to the auditory modality, 436
- Onofrij, M., Basciani, M., Fulgente, T., Bazzano, S., Malatesta, G. and Curatola, L., Maps of somatosensory evoked potentials (SEPs) to mechanical (tapping) stimuli: comparison with P14, N20, P22, N30 of electrically elicited SEPs, 314
 Otto, D.A., see Hudnell, H.K., 190
 Ozaki, I., see Tomberg, C., 259
- Paavilainen, P., see Nyman, G., 436
 Papanicolaou, A.C., see Rogers, R.L., 237
 Paradiso, C., see Rossini, P.M., 266
 Philpot, M.P., Amin, D. and Levy, R., Visual evoked potentials in Alzheimer's disease: correlations with age and severity, 323
 Polich, J., Ladish, C. and Bloom, F.E., P300 assessment of early Alzheimer's disease, 179
 Pratt, H., see Attias, J., 127
 Priori, A., see Inghilleri, M., 382
 Pyhtinen, J., see Kovala, T., 347
- Quirk, G.J., see Amassian, V.E., 390
- Radil, T., see Nyman, G., 436
 Reinikainen, K., see Alho, K., 151
 Reinikainen, K., see Nyman, G., 436
 Reni, L., see Abbruzzese, G., 340
 Robinson, E., see Bartel, P., 330
 Rogers, R.L., Papanicolaou, A.C., Baumann, S.B., Saydjari, C. and Eisenberg, H.M., Neuromagnetic evidence of a dynamic excitation pattern generating the N100 auditory response, 237
 Ross, M., see Yasuhara, A., 93
 Rossini, P.M., Paradiso, C., Zarola, F., Mariorenzi, R., Traversa, R., Martino, G. and Caramia, M.D., Bit-mapped somatosensory evoked potentials and muscular reflex responses in man: comparative analysis in different experimental protocols, 266
 Rubel, E.W., see Donaldson, G.S., 458
- Sainio, K., see Alho, K., 151
 Sajaniemi, N., see Alho, K., 151
 Sams, M., see Nyman, G., 436
 Satoh, T., see Shiraki, Y., 376
 Satya-Murti, S., see Cacace, A.T., 6
 Saydjari, C., see Rogers, R.L., 237
 Scherokman, B., see Jabbari, B., 101
 Schlatter, M., see Jabbari, B., 101
 Schoener, E.P., see Lee, J.A., 362
 Schwartz, D.M., Morris, M.D., Spydell, J.D., Ten Brink, C., Grim, M.A. and Schwartz, J.A., Influence of click polarity on the brain-stem auditory evoked response (BAER) revisited, 445
 Schwartz, J.A., see Schwartz, D.M., 445
 Seki, Y., see Yasuhara, A., 93
 Shibasaki, H., Nakamura, M., Nishida, S., Kakigi, R. and Ikeda, A., Wave form decomposition of 'giant SEP' and its computer model for scalp topography, 286
 Shima, F., see Urasaki, E., 39
 Shimpo, T., see Sonoo, M., 28
 Shiraki, Y. and Satoh, T., Modulation of vibrissa-evoked cortical potentials after infraorbital nerve crush in rats, 376
 Skuse, N.F. and Burke, D., Power spectrum and optimal filtering for visual evoked potentials to pattern reversal, 199
 Sohmer, H., see Adelman, C., 77
 Sommers, D.K., see Bartel, P., 330
 Sonoo, M., Shimpo, T., Genba, K., Kunimoto, M. and Mannen, T., Posterior cervical N13 in median nerve SEP has two components, 28
 Soveges, L., see Guérit, J.M., 163
 Spitz, M., see Staley, K., 1
 Spydell, J.D., see Schwartz, D.M., 445
 Staley, K., Iragui, V. and Spitz, M., The human fetal auditory evoked potential, 1
 Stewart, M., see Amassian, V.E., 390
 Swenson, M.R., see Zornow, M.H., 137
- Tacker, Jr., W.A., see Dull, S.T., 68
 Taylor, G.W., see Brunquell, P.J., 112
 Ten Brink, C., see Schwartz, D.M., 445
 Thivierge, J. and Côté, R., Brain-stem auditory evoked response: normative values in children, 309
 Tolonen, U., see Kovala, T., 347
 Tomberg, C., see Desmedt, J.E., 243
 Tomberg, C., Noël, P., Ozaki, I. and Desmedt, J.E., Inadequacy of the average reference for the topographic mapping of focal enhancements of brain potentials, 259
 Tonoue, T., see Nishimura, Y., 320
 Traversa, R., see Rossini, P.M., 266
 Tybor, C., see Zornow, M.H., 137
- Urasaki, E., Wada, S., Kadoya, C., Yokata, A. and Matsuoka, S., Spinal intramedullary recording of human somatosensory evoked potentials, 233
 Urasaki, E., Wada, S., Kadoya, C., Yokota, A., Matsuoka, S. and Shima, F., Origin of scalp far-field N18 of SSEPs in response to median nerve stimulation, 39

- Vachatimanont, P., see Yasuhara, A., 93
Van der Meyden, C., see Bartel, P., 330
Van der Poel, J.C., see Jones, S.J., 214
Vodušek, D.B., Pudendal SEP and bulbocavernosus reflex in women, 134

Wada, S., see Urasaki, E., 39, 233
Warren, C., see Markand, O.N., 416, 425
Weigel, K., see Curio, G., 19
Williams, C.J., see Markand, O.N., 425
Wilson, M.J., see Dobie, R.A., 205
Witzmann, A., Changes of somatosensory evoked potentials with increase of intracranial pressure in the rat's brain, 59
Wolpaw, J.R., see Cacace, A.T., 6
Woo, E., see Chan, Y.W., 119

Yamada, T., see Yasuhara, A., 93
Yamamoto, S., see Ito, J., 174

Yasuhara, A., Yamada, T., Seki, Y., Emori, T., Vachatimanont, P., Andoh, K., Ando, A., Ross, M. and Kimura, J., Presence of two subcomponents in P9 far-field potential following stimulation of the median nerve, 93
Yokata, A., see Urasaki, E., 233
Yokata, A., see Urasaki, E., 39
Yu, Y.L., see Chan, Y.W., 119

Zanette, G., Carteri, A. and Cusumano, S., Reappearance of brain-stem auditory evoked potentials after surgical treatment of a brain-stem hemorrhage: contributions to the question of wave generation, 140
Zarola, F., see Rossini, P.M., 266
Zegers de Beyl, D., see Delberghe, X., 86
Zornow, M.H., Grafe, M.R., Tybor, C. and Swenson, M.R., Preservation of evoked potentials in a case of anterior spinal artery syndrome, 137

INDEX OF SUBJECTS

VOLUME 77 (EP), 1990

Afferent activity

- muscle afferent cortical projections, 353

Age

- normative BAEP values in children, 309
- VEPs and Alzheimer's disease, 323

Alcohol

- and BAEPs, and brain temperature, 362
- BAEPs and MAEPs in abstinent chronic alcoholics, 145

Alzheimer's disease

- and VEPs, 323
- P300 and monoamine metabolites, 174
- P300 assessment of AD, 179

Antiepileptic drugs

- chronic effects of phenytoin on BAEP, 119

Audition

- binaural interaction in the BAEP, 214
- ERPs of newborns to pitch change, 151
- influence of click polarity on BAEPs, 445
- mismatch negativity for auditory stimuli, 436

Auditory cortex

- GABA effects on AEPs, 225

Auditory evoked potentials

- human middle latency AEP, 6
- in abstinent chronic alcoholics, 145
- mismatch negativity for auditory stimuli, 436
- temperature-dependent hysteresis in AEPs, 425
- "Wiener" filtered AEPs, 205
- 3-CLT of human auditory ERP, 127
- *see also* Brain-stem auditory evoked potentials

Average reference

- emulation of SEP components, with 3-shell head model, 243
- inadequacy of average reference for SEP mapping, 259

Axonal delay time

- binaural interaction in the BAEP, 214

BAEPs, *see* Brain-stem auditory evoked potentials

Bandwidth

- optimal filtering for VEPs to pattern reversal, 199

Binaural interaction

- in the BAEP, 19, 214
- "Wiener" filtered AEPs, 205

Book reviews, 402

Brain edema

- SEPs and increase in intracranial pressure, 59

Brain-stem

- BAEPs after surgery of brain hemorrhage, 140
- scalp far-field N18 in median nerve SEP, 39

Brain-stem auditory evoked potentials

- after surgery of brain hemorrhage, 140
 - and alcohol, and brain temperature, 362
 - binaural interaction in the BAEP, 19, 214
 - chronic effects of phenytoin, 119
 - cross-correlation of brain-stem responses in man, 295
 - GABA effects on AEPs, 225
 - human fetal AEP, 1
 - in abstinent chronic alcoholics, 145
 - influence of click polarity on BAEPs, 445
 - in isolated rat brain, 320
 - multiple sources for the N100 AEP, 237
 - neonatal BAEPs, from 1 h to 5 months, 77
 - normative BAEP values in children, 309
 - ponto-mesencephalic field distribution, 19
 - rate effects in neonatal and adult gerbils, 458
- Bulbocavernosus reflex and pudendal SEP, 134

Cardiac surgery

- effects of hypothermia on SEPs, 416
- median nerve SEP in hypothermia, 163
- temperature-dependent hysteresis in SEPs and AEPs, 425

Cat

- GABA effects on AEPs, 225

Cerebral circulation

- SEPs and increase in intracranial pressure, 59
- tibial SEPs and seizures after stroke, 347

Cerebral lesions, *see* Lesions

Cerebrovascular disease

- tibial SEPs and seizures after stroke, 347

Cervical cord

- posterior cervical N13 in median nerve SEP, 28

Children, *see* Infants

Chlorpromazine and pattern and flash ERGs and VEPs, 330

Circulation

- median nerve SEP in hypothermia, 163

Click polarity influence on BAEPs, 445

Cognitive potentials

- emulation of SEP components, with 3-shell head model, 243

Coherence analysis

- "Wiener" filtered AEPs, 205

- Computed EEG topography, *see* Topographic mapping
- Computer model of giant SEP, 286
- Conduction time
 - SEPs in Huntington's disease, 340
- Cortical barrel field
 - vibrissa EPs after nerve injury in the rat, 376
- Cross-circulation
 - BAEPs in isolated rat brain, 320
- Cuneate nucleus
 - posterior cervical N13 in median nerve SEP, 28
- Current source, *see* Generators
- Cutaneous afferent cortical projections, 353

- Deafferentation
 - BAEPs in isolated rat brain, 320
- Dementia
 - P300 and monoamine metabolites, 174
 - P300 assessment of Alzheimer's disease, 179
 - VEPs and Alzheimer's disease, 323
- Development
 - BAEP rate effects in neonatal and adult gerbils, 458
 - ontogenesis of rat lumbar spinal SEP, 112
- Diagnosis
 - VEPs and Alzheimer's disease, 323
- Digital nerve
 - effect of stimulus frequency on SEP, 86
- Dipole
 - dipole estimation on the basis of EPs, 156
 - emulation of SEP components, with 3-shell head model, 243
 - inadequacy of average reference for SEP mapping, 259
 - multiple sources for the N100 AEP, 237
 - two subcomponents in P9 far-field SEP, 93
- Direct recording
 - scalp far-field N18 in median nerve SEP, 39
- Dopamine
 - chlorpromazine and pattern and flash ERGs and VEPs, 330

- Early components, *see* Short latency components
- Electrical brain stimulation
 - and magnetic stimulation in monkey, 390
 - corticospinal activation by magnetic coil, 390
 - motor EPs to paired cortical stimuli, 382
- Electroretinogram, *see* ERG
- EMG
 - SEP mapping and long latency EMG responses, 266
- Epilepsy
 - chronic effects of phenytoin on BAEP, 119
 - computer model of giant SEP, 286
 - tibial SEPs and seizures after stroke, 347
- ERG
 - chlorpromazine and pattern and flash ERGs and VEPs, 330
- Event-related potentials
 - mismatch negativity for auditory and visual stimuli, 436
 - of newborns to pitch change, 151
 - P300 assessment of Alzheimer's disease, 179
 - P300, monoamine metabolites, and dementia, 174
 - 3-CLT of human auditory ERP, 127

- Evoked potentials
 - anterior spinal artery syndrome, 137
 - auditory, *see* Auditory evoked potentials
 - BAEPs, *see* Brain-stem auditory evoked potentials
 - cerebral EPs to posterior urethra stimulation, 52
 - dipole estimation on the basis of EPs, 156
 - somatosensory, *see* Somatosensory evoked potentials
 - to pattern, *see* Pattern
 - vibrissa EPs after nerve injury in the rat, 376
 - visual, *see* Visual evoked potentials
- Experimental models, *see* Models

- Far-field potentials
 - scalp far-field N18 in median nerve SEP, 39
 - two subcomponents in P9 far-field SEP, 93
- Fetal human AEP, 1
- Filtering
 - optimal filtering for VEPs to pattern reversal, 199
 - "Wiener" filtered AEPs, 205
- First hours of life
 - neonatal BAEPs, from 1 h to 5 months, 77
- Frequency analysis, *see* Spectral analysis
- Frequency-following response
 - cross-correlation of brain-stem responses in man, 295
- Frontal cortex
 - muscle afferent cortical projections, 353
 - SEPs in Huntington's disease, 340

- GABA effects on AEPs, 225
- Generators
 - BAEPs after surgery of brain hemorrhage, 140
 - dipole estimation on the basis of EPs, 156
 - emulation of SEP components, with 3-shell head model, 243
 - inadequacy of average reference for SEP mapping, 259
 - multiple sources for the N100 AEP, 237
 - posterior cervical N13 in median nerve SEP, 28
 - scalp far-field N18 in median nerve SEP, 39
- Gerbil
 - BAEP rate effects in neonatal and adult gerbils, 458
- Ghost potential field
 - emulation of SEP components, with 3-shell head model, 243
 - inadequacy of average reference for SEP mapping, 259

- Heart surgery, *see* Cardiac surgery
- Hemifield pattern reversal VEP asymmetry, 81
- Hemorrhage
 - BAEPs after surgery of brain hemorrhage, 140
- Huntington's disease
 - parietal and prerolandic SEPs, 340
- Hypothermia
 - and median nerve SEP, 163
 - effects on SEPs, 416
 - temperature-dependent hysteresis in SEPs and AEPs, 425

- Infants
 - normative BAEP values, 309

Intracranial recording

- binaural interaction in the human BAEP, 19
- ponto-mesencephalic field distribution of BAEP, 19
- posterior cervical N13 in median nerve SEP, 28
- scalp far-field N18 in median nerve SEP, 39

Intracranial pressure increase and SEPs, 59

Ischemia

- anterior spinal artery syndrome, 137

Latency compensation

- cross-correlation of brain-stem responses in man, 295

Lateralization

- BAEPs after surgery of brain hemorrhage, 140
- hemifield pattern reversal VEP asymmetry, 81
- vibrissa EPs after nerve injury in the rat, 376

Lesions

- of the afferent trigeminal system, and SEPs, 403
- vibrissa EPs after nerve injury in the rat, 376

Lingual nerve

- SEPs and lesion of the afferent trigeminal system, 403

Lissajous' trajectories of human auditory ERP, 127

Long latency components

- cross-correlation of brain-stem responses in man, 295

Long latency EMG responses and SEP mapping, 266

Long-term therapy

- chronic effects of phenytoin on BAEP, 119

Magnetic field

- multiple sources for the N100 AEP, 237

Magnetic resonance imaging

- and SEPs in intraspinal neoplasms, 101
- and SEPs in syringomyelia, 277

Magnetic stimulation

- corticospinal activation by magnetic coil, 390
- magnetic and electrical brain stimulation in monkey, 390

Magnetoencephalogram

- multiple sources for the N100 AEP, 237

Mapping, *see* Topographic mapping

Mechanical stimulation and SEP mapping, 314

Median nerve SEP

- effect of hypothermia, 416
- effect of stimulus frequency, 86
- in Huntington's disease, 340
- in hypothermia, 163
- intramedullary recording in man, 233
- posterior cervical N13, 28
- scalp far-field N18 in median nerve SEP, 39
- SEP mapping and long latency EMG responses, 266
- temperature-dependent hysteresis in SEPs, 425
- two subcomponents in P9 far-field SEP, 93

Middle latency responses

- BAEPs and MAEPs in abstinent chronic alcoholics, 145
- GABA effects on AEPs, 225
- human middle latency AEP, 6

Mismatch negativity

- ERPs of newborns to pitch change, 151
- for auditory and visual stimuli, 436

Models

- computer model of giant SEP, 286
- dipole estimation on the basis of EPs, 156
- emulation of SEP components, 243
- inadequacy of average reference for SEP mapping, 259
- 3-shell head model, 243

Monitoring

- anterior spinal artery syndrome, 137
- human fetal AEP, 1
- median nerve SEP in hypothermia, 163
- SEPs and increase in intracranial pressure, 59

Monkey

- magnetic and electrical brain stimulation, 390

Monoaminergic functions and P300 in dementia, 174

Motor cortex

- corticospinal activation by magnetic coil, 390
- magnetic and electrical stimulation in monkey, 390
- motor EPs to paired cortical stimuli, 382

Motor evoked potentials

- amplitudes and latencies of rat MEPs, 68
- to paired cortical stimuli, 382

Muscle afferent cortical projections, 353

Myoclonus

- computer model of giant SEP, 286

Neonates

- BAEPs, from 1 h to 5 months, 77
- ERPs to pitch change, 151

Nerve

- vibrissa EPs after nerve injury in the rat, 376
- *see also* Conduction time

Neuralgia

- SEPs and lesion of the afferent trigeminal system, 403

Neurological disorders

- anterior spinal artery syndrome, 137
- BAEPs after surgery of brain hemorrhage, 140
- intramedullary recording of human SEPs, 233
- MRI and SEPs in intraspinal neoplasms, 101
- MRI and SEPs in syringomyelia, 277

Normal human subjects

- asymmetry of hemifield pattern reversal VEP, 81
- binaural interaction in the BAEP, 214
- bulbocavernosus reflex and pudendal SEP, 134
- cerebral EPs to posterior urethra stimulation, 52
- chlorpromazine and pattern and flash ERGs and VEPs, 330
- cross-correlation of brain-stem responses, 295
- effect of stimulus frequency on SEP, 86
- emulation of SEP components, 243
- inadequacy of average reference for SEP mapping, 259
- maps of SEPs to mechanical stimuli, 314
- middle latency AEP, 6
- motor EPs to paired cortical stimuli, 382
- muscle afferent cortical projections, 353
- normative BAEP values in children, 309
- SEP following tongue stimulation, 403
- SEP mapping and long latency EMG responses, 266
- two subcomponents in P9 far-field SEP, 93

- visual pattern EPs, 190
- 3-CLT of human auditory ERP, 127
- 3-shell head model, 243
- N100 localization
 - multiple sources for the N100 AEP, 237
- Occipital cortex
 - asymmetry of hemifield pattern reversal VEP, 81
- Paraplegia
 - anterior spinal artery syndrome, 137
- Parietal cortex
 - muscle afferent cortical projections, 353
 - SEPs in Huntington's disease, 340
- Pattern adaptation
 - visual pattern EPs in humans, 190
- Pattern reversal
 - asymmetry of hemifield pattern reversal VEP, 81
 - optimal filtering for VEPs, 199
- Pelvic nerve
 - cerebral EPs to posterior urethra stimulation, 52
- Phenytoin
 - chronic effects of phenytoin on BAEP, 119
- Ponto-mesencephalic field distribution of BAEP, 19
- Power spectral analysis
 - optimal filtering for VEPs to pattern reversal, 199
- Pudendal nerve
 - cerebral EPs to posterior urethra stimulation, 52
 - pudendal SEP and bulbocavernosus reflex, 134
- Pyramidal tract
 - corticospinal activation by magnetic coil, 390
 - magnetic and electrical brain stimulation in monkey, 390
 - motor EPs to paired cortical stimuli, 382
- P300
 - and monoamine metabolites in dementia, 174
 - P300 assessment of Alzheimer's disease, 179
 - 3-CLT of human auditory ERP, 127
- Rat
 - alcohol, BAEPs, and brain temperature, 362
 - amplitudes and latencies of motor EPs, 68
 - BAEPs in isolated rat brain, 320
 - ontogenesis of rat lumbar spinal SEP, 112
 - SEPs and increase in intracranial pressure, 59
 - vibrissa EPs after nerve injury, 376
- Rate effect
 - BAEP rate effects in neonatal and adult gerbils, 458
- Recovery cycle
 - motor EPs to paired cortical stimuli, 382
- Sex differences
 - normative BAEP values in children, 309
- Short latency components
 - BAEPs and MAEPs in abstinent chronic alcoholics, 145
 - effects of hypothermia on SEPs, 416
 - visual pattern EPs in humans, 190
- Sine wave grating
 - visual pattern EPs in humans, 190
- Somatosensory evoked potentials
 - and increase in intracranial pressure, 59
 - and lesion of the afferent trigeminal system, 403
 - and MRI in intraspinal neoplasms, 101
 - and MRI in syringomyelia, 277
 - anterior spinal artery syndrome, 137
 - computer model of giant SEP, 286
 - effect of hypothermia, 416
 - effect of stimulus frequency, 86
 - emulation of SEP components, with 3-shell head model, 243
 - inadequacy of average reference for SEP mapping, 259
 - in Huntington's disease, 340
 - intramedullary recording of human SEPs, 233
 - maps of SEPs to mechanical stimuli, 314
 - median nerve SEP in hypothermia, 163
 - muscle afferent cortical projections, 353
 - ontogenesis of rat lumbar spinal SEP, 112
 - posterior cervical N13 in median nerve SEP, 28
 - pudendal SEP and bulbocavernosus reflex, 134
 - scalp far-field N18 in median nerve SEP, 39
 - SEP mapping and long latency EMG responses, 266
 - temperature-dependent hysteresis in SEPs, 425
 - tibial SEPs and seizures after stroke, 347
 - to tongue stimulation, 403
 - two subcomponents in P9 far-field SEP, 93
- Sound lateralization
 - binaural interaction in the BAEP, 214
- Source, *see* Generators
- Spatial distribution, *see* Topographic mapping
- Spatial frequency
 - visual pattern EPs in humans, 190
- Spinal cord
 - amplitudes and latencies of rat motor EPs, 68
 - anterior spinal artery syndrome, 137
 - intramedullary recording of human SEPs, 233
 - MRI and SEPs in intraspinal neoplasms, 101
 - MRI and SEPs in syringomyelia, 277
 - ontogenesis of rat lumbar spinal SEP, 112
- Steady-state response
 - "Wiener" filtered AEPs, 205
- Stroke
 - tibial SEPs and seizures after stroke, 347
- Syringomyelia
 - and MRI and SEPs, 277
 - intramedullary recording of human SEPs, 233
- Technique
 - human fetal AEP, 1
- Temperature
 - alcohol, BAEPs, and brain temperature, 362
- Temporal lobe
 - human middle latency AEP, 6
- Thalamus
 - scalp far-field N18 in median nerve SEP, 39

Threshold

- neonatal BAEPs, from 1 h to 5 months, 77

Tibial nerve

- MRI and SEPs in intraspinal neoplasms, 101
- SEPs and seizures after stroke, 347

Topographic mapping

- computer model of giant SEP, 286
- emulation of SEP components, with 3-shell head model, 243
- inadequacy of average reference for SEP mapping, 259
- maps of SEPs to mechanical stimuli, 314
- SEP mapping and long latency EMG responses, 266

Transcranial brain stimulation

- amplitudes and latencies of rat motor EPs, 68
- corticospinal activation by magnetic coil, 390
- magnetic and electrical brain stimulation in monkey, 390
- motor EPs to paired cortical stimuli, 382

Trigeminal lesions and SEPs, 403

Tumors

- MRI and SEPs in intraspinal neoplasms, 101

Urinary bladder

- cerebral EPs to posterior urethra stimulation, 52

Vertex

- human middle latency AEP, 6

Vibrissa EPs after nerve injury in the rat, 376

Visual evoked potentials

- and Alzheimer's disease, 323
- asymmetry of hemifield pattern reversal VEP, 81
- chlorpromazine and pattern and flash ERGs and VEPs, 330
- mismatch negativity for visual stimuli, 436
- optimal filtering for pattern reversal VEPs, 199
- visual pattern EPs in humans, 190

Volume conduction

- two subcomponents in P9 far-field SEP, 93

Wave form decomposition

- computer model of giant SEP, 286

Wiener filtered AEPs, 205